Air King Central Vacuums®

OWNERS MANUAL

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IMPORTANT: CAREFULLY READ AND RETAIN THIS BOOKLET.

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Specifications and Dimensions

Specifications	200 Pound
Noise level measured during operation at operator position of 3.3 feet (1 meter) in front of machine and 5.2 feet (1.6 meters) from floor.	66 dBA
Cylinder Size: Inches (mm)	50.75 x 50 (1289 x 1270)
Cylinder Capacity dry weight: Pounds (kg)	200 (90.7)
Cylinder Motor Horsepower	0.75
Fan Motor Horsepower	3
Air Outlet Diameter: Inches (mm)	12 (300)
Maximum Static Back Pressure: W.C.I. (mbar)	0.3 (0.8)
Maximum Airflow: C.F.M (L/sec.)	2450 (1156)
Gas Models	
Net Weight (approximate): Pounds (kg)	1707 (774)
Gas Connection	1 in. NPT
Gas Burner Rating: Btu/hr. (Mj/hr.)	425,000 (448)
Steam Models	
Net Weight (approximate): Pounds (kg)	1807 (820)
Steam Connection	3/4 in. NPT inlet 1 in. NPT outlet
Steam Coil Rating at 100 psig:Boiler Horsepower (Btu/hr.) (recommended operating pressure 80-100 psig)	18.8 (648,000)
Electric Models	
Heating Element Rating:Kilowatts (kW)	N/A

N/A = Not Applicable

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Photosensitive Seizures

A very small percentage of people may experience a seizure when exposed to certain visual images, including flashing lights or patterns that may appear in video games. Even people who have no history of seizures or epilepsy may have an undiagnosed condition that can cause these "photosensitive epileptic seizures" while watching video games.

These seizures may have a variety of symptoms, including light headedness, altered vision, eye or face twitching, jerking or shaking of arms or legs, disorientation, confusion, or momentary loss of awareness. Seizures may also cause loss of consciousness or convulsions that can lead to injury from falling down or striking nearby objects.

Immediately stop playing and consult a doctor if you experience any of these symptoms. Parents should watch for or ask their children about the above symptoms – children and teenagers are more likely than adults to experience these seizures. The risk of photosensitive epileptic seizures may be reduced by taking the following precautions:

- Sit farther from the television screen.
- Use a smaller television screen.
- Play in a well-lit room.
- Do not play when you are drowsy or fatigued.

If you or any of your relatives have a history of seizures or epilepsy, consult a doctor before playing.

All Devices

Do Not Attempt Repairs

Do not attempt to take apart, open, service, or modify the hardware device or power supply. Doing so could present the risk of electric shock or other hazard. Any evidence of any attempt to open and/or modify the device, including any peeling, puncturing, or removal of any of the labels, will void the Limited Warranty.

Choking Hazard

This device may contain small parts which may be a choking hazard to children under 3. Keep small parts away from children.

Usage and Cleaning

Use in accordance with these instructions:

- Do not use near any heat sources.
- Only use attachments/accessories specified by Microsoft.
- Clean only with dry cloth.
- Do not allow this product to become wet. To reduce the risk of fire or shock, do not expose this product to rain or other types of moisture.

Adhesive Mounting

Some devices use adhesive tape to mount components in your workspace. DO NOT mount on antiques, heirlooms, or other valuable or irreplaceable items. After mounting, removing the adhesive may damage the cosmetic coating and/or leave an adhesive residue.

Tablet Stands

To avoid damaging equipment placed on the tablet stand, do not overload or bump it, causing it to collapse or tip over.

Laser and LED Specifications

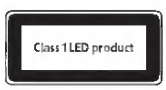
Caution Use of controls or adjustments, or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laser Devices

This device complies with International Standard IEC 60825-1:2007-03 for a Class 1 laser product. This device also complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

Optical (LED) Mouse

This product has been evaluated to comply with International Standard (IEC 60825-1:2001-08) and IEC 62471 (2006-07). This product uses LEDs that are considered Class 1 (IEC 60825-1:2001-08).



Regulatory Information

Not intended for use in machinery, medical or industrial applications.

Any changes or modifications not expressly approved by Microsoft could void the user's authority to operate this device.

This product is for use with NRTL Listed (UL, CSA, ETL, etc.), and/or IEC/EN 60950-1 compliant (CE marked) Information Technology equipment

No serviceable parts included. This device is rated as a commercial product for operation at +41°F (+5°C) to +95°F (+35°C).

This Class B digital apparatus complies with, as applicable, Part 15 of the U.S. Federal Communications Commission (FCC) rules, Canadian ICES-003, RSS-Gen, RSS-210 and RSS-310. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

To comply with RF exposure requirements, the following operating configurations must be satisfied: the antenna has been installed by the manufacturer and no changes can be made. The wireless devices must not be co-located or operating in conjunction with any other antenna or transmitter. Except for headset and handheld devices, wireless devices must be at least 20 cm between the antenna of the wireless device and all persons.

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Introduction

Product Features

This product is an SVGA single chip 0.55" DLP™ projector. Its outstanding features include:

- True SVGA, 800 x 600 addressable pixels
- 4.5 lbs (2 kgs) compact design
- Single chip DLP™ technology
- Independent white-balance adjustment, for natural picture quality
- Digital zoom features
- PureProgressive™ processing technology for artifact-free film materials
- Full HDTV compatibility (480i/p, 1080i, 720p)
- NTSC/NTSC4.43/PAL/PAL-M/PAL-N/SECAM and HDTV compatible
- Fully functioning remote with optional mouse control
- User-friendly multilingual on screen display menu
- Advanced electronic keystone correction and high quality full digital functionality
- User-friendly control panel
- Luxurious carrying bag included
- When set to the smallest ratio, the projector can support up to SXGA and can fully support VGA and SVGA
- 150 watt user replaceable lamp
- Compatible with Apple Macintosh

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SETTINGS AND ADJUSTMENTS

The following section outlines the selectable options and features which are available to the user. The Control Box cover must be removed in order to access the components which control these features. Switch off power at power outlet - hinge down the light cover and remove the single retaining screw and then unclip the cover from its base.

9. Engaging & Disengaging the Opener

Important Note: Always disengage the Opener with the door in the fully closed position. If disengaging from any position other than the door fully closed ensure that there are no persons or property near or directly under the path of the door.

To Disengage
- Pull down on the red release cord

To Engage
- Pull down on the green release cord

10. Transmitters – Learning & Deleting

Important Note: Hand transmitters and wall panel are supplied pre learned. To delete or learn transmitter codes refer to the instructions outlined in this section.

A. Mass Learning
Function – Learns ALL 4 transmitter buttons as follows:
1. Run 2. Auto Close Override 3. Courtesy Light 4. Vacation Mode
To Learn – Press (red) Learn button (2) – LED (1) single blinks
Press any Transmitter button twice – learn complete

B. Run A Function Learning
Function – Learns only Run button.
To Learn – Press (red) Learn button (2) twice – LED (1) double blinks.
Press desired Transmitter button twice – learn complete

C. Run B Function Learning
Function – Door will not auto close when opened from this button.
To Learn – Press (red) Learn button (2) 3 times – LED (1) triple blinks
Press desired Transmitter button twice – Learn complete

D. Courtesy Light On/Off Function Learning
Function – Turns courtesy light on/off
To Learn – Press (red) Learn button (2) 4 times – LED (1) quadruple blinks
Press desired Transmitter button twice – Learn complete

E. Vacation Mode Function Learning
Function – Disables Learn and Run button function
To Learn – Press (red) Learn button (2) 5 times – LED (1) quintuple blinks
Press desired Transmitter button (2) twice – Learn complete

F. Wireless Wall Switch
The wireless wall switch can be programmed in the same way as a transmitter.
Select one of the methods outlined in parts A – G and Learn accordingly.

G. Deleting all Transmitters
Momentarily press (red) Learn button (2) – LED (1) single blinks
Press and hold (black) Run button (3) – LED rapid blinks
Transmitters deleted once LED ceases to blink

11. Door Travel Adjustment

When adjusting limits always ensure that the Opener is disengaged from the door and not connected to the power supply

Open Direction
- Move the door by hand to the fully open position.
- Remove the light cover to expose the Limit Cams.
- Slightly loosen the 3 lock screws so that the Cams can be rotated by hand with a firm push.
- Rotate the "Open" Cam in the direction of the limit switch until the switch is heard to "click".
- Once the switch "clicks" continue to rotate the cam a further 5 degrees **towards** the switch.
- Check adjustment by partially raising and lowering the door by hand. The switch should "click" approx 50mm **before** the door stoppers reach the track stoppers.
- If necessary adjust the Open Limit Cam accordingly - turn the cam **towards** switch to **decrease** door travel and **away** from the switch to **increase** door travel.

Close Direction
- Move the door by hand to the fully closed position.
- Rotate the "Close" Cam in the direction of the limit switch until the switch is heard to "click".
- Once the switch "clicks" rotate the cam by 5 degrees back away from the switch.
- Check adjustment by partially raising and lowering the door by hand. The switch should "click" approx 20mm **before** the door reaches the ground.
- If necessary adjust the Close Limit Cam accordingly - turn the cam **towards** switch to **decrease** door travel and **away** from the switch to **increase** door travel.

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1.5.1 Installing a Pentium II Processor

Observe the ESD precautions when installing or removing a system component.

Follow these steps to install a Pentium II processor:

1. Place the retention mechanism over the CPU connector on the system board. Secure it with the screws that came with the package.

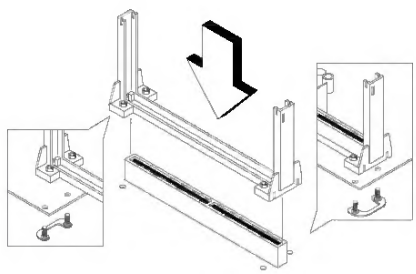

Figure 1-2 Installing the Retention Mechanism

2. Remove the Pentium II processor from its protective packaging. Make sure that the latches on the sides of the module are not pressed.
3. With the processor card golden fingers pointing downward, align the processor to the posts of the retention mechanism.
4. Lower the processor into to the CPU connector on the system board until the golden fingers touch the connector.

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Project Submittal Sheet

Models M0/MS 524, M0/MS/MU 628 — U.L. Classified or U0/US 960, U0/US 980 — U.L. Listed

Project _____ SHL* _____

Location _____

Architect _____

Engineer _____

Contractor _____

Submitted By _____ Oate _____

*Total design sensible heat load of project.

Blower Section – Motor – Motor Sheave – Pulley and Belt Kit

Ref. No.	Blower Section Qty.	Model No.	Motor Specifications Motor HP	Volts	Phase	Amps	Kits Motor Sheave	Belt
1								
2								
3								
4								

*NOTE: Each unit (ready to operate) consists of one blower section, one blower motor, one pulley-belt kit, one motor sheave.

Wet Section – Pump

Ref. No.	Wet Section Qty.	Model No.	Pump Quantity	Volts	Amps	GPM
1						
2						
3						
4						

*NOTE: Each wet section (ready to operate) consists of one wet module and one pump.

Your local MasterCool Representative of AdobeAir, Inc., is ready to assist you in unit selection and application.

The world leader in evaporative cooling technology, AdobeAir, Inc. is continually involved in the process of product improvement. AdobeAir, Inc. therefore reserves the right to change specifications and/or design without prior notice. To obtain the most current product information and/or specifications, visit the AdobeAir, Inc. web site at **www.AdobeAir.com.**

MasterCool evaporative coolers and components are designed and tested in accordance with one or more of the following standards or agencies:

Air Delivery: Data published derived from tests conducted in accordance with A.M.C.A. (Air Movement and Control Assoc.) Standard 210.

Sealant: Water Immersion: per ASTM 0870. Flexibility: per ASTM 0756. Corrosion Resistance: per ASTM B117. Cycle Freeze/Thaw: per ASTM C117.

PDLYBOND®: Corrosion Resistance: per ASTM B117. Pencil Hardness: per ASTM D3363. Adhesion: per ASTM D3359. Impact Resistance: per ASTM D2794. Flexibility: per ASTM D522. Specular Gloss: per ASTM D523. Surface Burning Characteristics of Building Materials (best rating) per U.L. 723 and ASTM E-84.

Pumps: Recognized under the U.L. component recognition program for the application – construction, thermal overload, running overload, and locked rotor protection.

Blower Motors: U.L. Recognized general purpose drip-proof.

Polymeric Materials: Tested in accordance with U.L. 94 and 746C. Covered by City of Los Angeles Research Reports (C.O.L.A.) RR930224 (for all single phase applications), or RR930190 (for 3 phase applications) Electrical, and RR8141 Mechanical.

Manufactured in Mexico by:
AdobeAir, Inc.
1450 East Grant St.
Phoenix, AZ 85034
www.AdobeAir.com

L900799A March 2007

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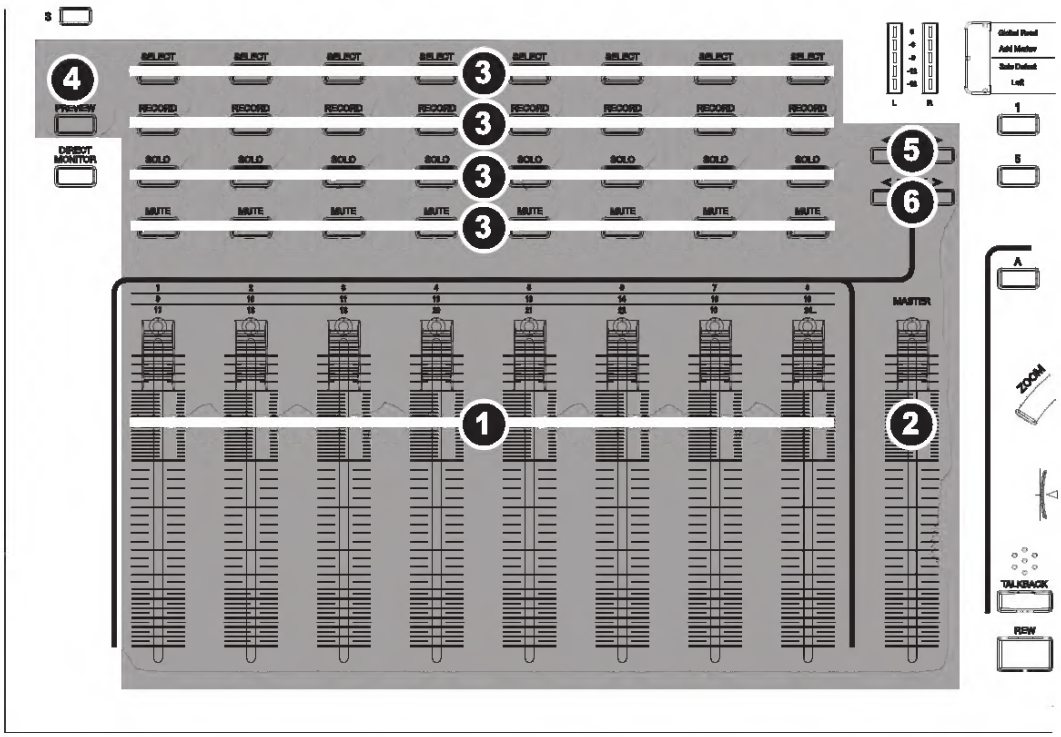
(B) DAW CONTROL: CHANNELS



1. **CHANNEL FADER** – Use this 100mm, touch-sensitive fader to adjust the volume levels of each channel. The exact level will be shown in the DISPLAY.

2. **MASTER FADER** – This fader controls the DAW's master fader. Note that different DAWs control this fader differently. Some DAWs, such as Pro Tools, do not make use of the fader at all.

3. **SELECT / RECORD / SOLO / MUTE** – These buttons control the corresponding functions in your DAW.

4. **PREVIEW** – Using this button to keep from becoming "lost" on the control surface. Press and hold PREVIEW and manipulate a control to see its operation and, if applicable, the DAW project's corresponding track name on the LCD display. As long as PREVIEW is held down, communication with the DAW will be suspended for most controls.

5. **< BANK >** – Use these buttons to move through your DAW project's channels in banks of eight. The first and last fader assignments for the selected bank will be shown in the DISPLAY.

6. **< TRACK >** – Use these buttons to move through your DAW project's channels one at a time.

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IMPORTANT TIP: If updated drivers and components become available after your NetWare 5 purchase but before installation, you can still use the updated versions rather than the ones that came with NetWare 5. Just place the new release in *C:\NWUPDATE*; then run *INSTALL.BAT*, as usual. *INSTALL.BAT* checks this directory for any newer versions of drivers and system components and then automatically replaces the older versions.

On the SmartStart CD-ROM is another jewel that is often overlooked: CPQFM.NLM.

Compaq File Management Utility for NetWare (CPQFM.NLM)

CPQFM.NLM incorporates many common commands in a familiar, graphical, menu-driven interface. Not only a timesaver, it's free. That's right. Unlike many commercial products that offer less functionality, *CPQFM.NLM* is available free-of-charge on the SmartStart CD-ROM. It's also available on the *Compaq ActiveAnswers Resource Paq for Novell:* the snazzy Compaq and Novell Partnership CD-ROM packed with lots of multi-media information; such as videos, slide presentations, white papers, SoftPaqs, and utilities. By the way, you can order the resource kit from our Partnership website:

If you haven't already done so, you really need to check out the Compaq ActiveAnswers Resource Paq for Novell CD-ROM.

What an offer! Compaq is providing you with access to the same homegrown tools that we use in our labs, just in case you need to do some of the fun stuff we do. And the other information products really reduce the learning curve for Compaq and Novell products. Oops! We're side-tracking! Let's get back to the management utility.

By using *CPQFM.NLM*, you can save precious time when you (1) search for files, (2) change file attributes, (3) edit files, (4) get file version and date information, and (5) delete files and directories. Want to know more?

- To launch any NLM or to connect to remote servers for file manipulations, *CPQFM.NLM*'s commands are extended and also apply to the remote file system.
- To view a menu of appropriate file or directory commands and functions, highlight the file or directory and press **Tab** (the majority of *CPQFM.NLM* functions are under the **Tab** menu).
- To view all version and date information for a specific CDM (Custom Device Module), DSK, HAM (Host Adapter Module), LAN, NLM, or PSM (Platform Support Module) file, just highlight the file and press **Enter.**
- To delete the highlighted file or directory tree, just press **Del**.

For more information about Compaq Server Management, checkout the Integration Note: Focus on Compaq Server Health in a NetWare Environment.

Compaq Management CD-ROM Release 4.30

Here's a great freebie!

Use the Compaq Management CD-ROM utilities and agents to easily monitor and manage your Compaq servers, workstations, desktops, and portables.

Contents include the following:

- Compaq Insight Manager v4.30 — Industry-leading application for efficiently managing networks, desktops, and servers.

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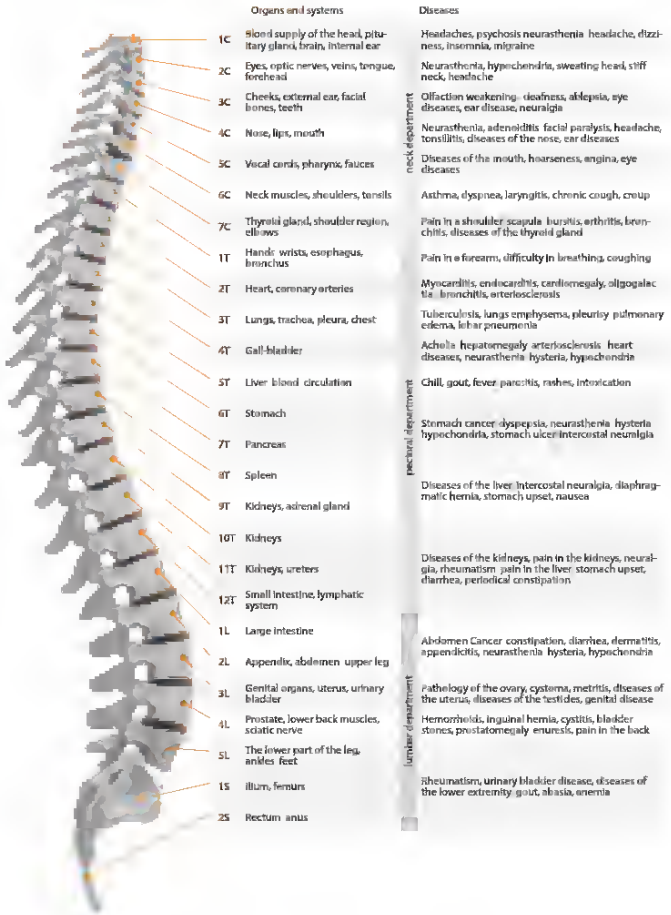
Vertebral Column Diagram


Organs and systems
Diseases
1C Blood supply of the head, pituitary gland, brain, internal ear
Headaches, psychosis neurasthenia headache, dizziness, insomnia, migraine
2C Eyes, optic nerves, veins, tongue, forehead
Neurasthenia, hypochondria, sweating head, stiff neck, headache
3C Cheeks, external ear, facial bones, teeth
Olfaction weakening, deafness, ablepsia, eye diseases, ear disease, neuralgia
4C Nose, lips, mouth
Neurasthenia, adenoiditis facial paralysis, headache, tonsilitis, diseases of the nose, ear diseases
5C Vocal cords, pharynx, fauces
Diseases of the mouth, hoarseness, angina, eye diseases
6C Neck muscles, shoulders, tonsils
Asthma, dyspnea, laryngitis, chronic cough, croup
7C Thyroid gland, shoulder region, elbows
Pain in a shoulder scapula bursitis, arthritis, bronchitis, diseases of the thyroid gland
1T Hands wrists, esophagus, bronchus
Pain in a forearm, difficulty in breathing, coughing
2T Heart, coronary arteries
Myocarditis, endocarditis, cardiomegaly, oligogalactia bronchitis, arteriosclerosis
3T Lungs, trachea, pleura, chest
Tuberculosis, lungs emphysema, pleurisy pulmonary edema, lobar pneumonia
4T Gall-bladder
Achelia hepatomegaly arteriosclerosis heart diseases, neurasthenia hysteria, hypochondria
5T Liver blood circulation
Chill, gout, fever parasitis, rashes, intoxication
6T Stomach
Stomach cancer dyspepsia, neurasthenia hysteria hypochondria, stomach ulcer intercostal neuralgia
7T Pancreas
8T Spleen
Diseases of the liver intercostal neuralgia, diaphragmatic hernia, stomach upset, nausea
9T Kidneys, adrenal gland
10T Kidneys
11T Kidneys, ureters
Diseases of the kidneys, pain in the kidneys, neuralgia, rheumatism pain in the liver stomach upset, diarrhea, periodical constipation
12T Small intestine, lymphatic system
1L Large intestine
Abdomen Cancer constipation, diarrhea, dermatitis, appendicitis, neurasthenia hysteria, hypochondria
2L Appendix, abdomen upper leg
3L Genital organs, uterus, urinary bladder
Pathology of the ovary, cystoma, metritis, diseases of the uterus, diseases of the testicles, genital disease
4L Prostate, lower back muscles, sciatic nerve
Hemorrhoids, inguinal hernia, cystitis, bladder stones, prostatomegaly enuresis, pain in the back
5L The lower part of the leg, ankles feet
1S Ilium, femur
Rheumatism, urinary bladder disease, diseases of the lower extremity gout, abasia, anemia
2S Rectum anus
neck department
pectoral department
lumbar department

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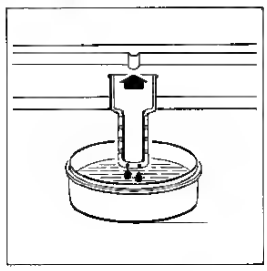
Freezer

The freezer compartment, however, will become progressively covered with frost. This should be removed with the special plastic scraper provided, whenever the thickness of the frost exceeds 4 mm. During this operation it is not necessary to switch off the power supply or to remove the foodstuffs.

However when the ice becomes very thick on the inner liner, complete defrosting should be carried out as follows:



1. Remove the frozen food from the freezer, wrap it in several layers of newspaper and put it in a very cool place.
2. Switch off the appliance and pull out the plug.
3. Leave the freezer compartment door open.
4. Insert the plastic scraper into the recess provided under the defrost water channel and place a collecting basin under it.
5. Once defrosting is completed keep the scraper for future use.
6. Turn the thermostat knob to the required setting or replace the plug in the power socket.

Warning!

Never use metal tools to scrape off the frost.

Do not use a mechanical device or any artificial means to speed up the thawing process other than those recommended by the manufacturer.

A temperature rise of the frozen food packs, during defrosting , may shorten their safe storage life.

Switching off the appliance

To switch off the appliance, turn the temperature regulator to position "0" or disconnect from the electricity supply.

If the appliance is not going to be used for an extended period:

1. Remove all refrigerated and frozen packages as well as ice trays.
2. Remove the mains plug or switch off or turn out the circuit breaker or fuse.

Service and Spare Parts

If you require a service engineer or wish to purchase spare parts, contact your local AEG Service Force Centre by telephoning:

0870 5 929929

Help us to help you

Please determine your type of enquiry before telephoning. When you contact us we need to know:

1. Your name, address and post code
2. Your telephone number
3. Clear and concise details of the fault
   - What is the fault?
   - When does the fault occur?
4. The model, production number and product identification number

This information can be found on the serial plate in the interior at the left of the appliance.

- Model Name
- Model Number (PNC)
- Serial Number (S-No.)

5. Date of purchase

Customer Care Department

For general enquiries regarding your AEG appliance, or futher information on AEG products please contact our customer care department:

Customer Care Department
AEG Domestic Appliances
55-77 High Street, Slough, Berkshire SL1 1DZ
Tel: 08705 350 350*

*calls to this number may be recorded for training purposes

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التوليف اليدوي للقنوات

ملاحظات:

- اذا كانت القناة التي وجدت ليست القناة المرغوبة، يمكنك ببساطة اعادة بدء البحث لاعلى او لاسفل بواسطة ضغط الزر V- او الزر V+
- لايقاف البحث اليدوي، اضغط الزر V- عندما يكون البحث باتجاه الاعلى، او اضغط الزر V+ عندما يكون البحث باتجاه الاسفل
- سوف تتوقف القائمة وتختفي من الشاشة عند الانتهاء، او يمكنك ضغط زر القائمة MENU لالغاء القائمة من الشاشة

التوليف الدقيق للقنوات

تمكنك هذه الميزة من تعديل استقبال الصورة في المناطق التي يكون فيها الاستقبال ضعيفاً

الخطوة	اضغط الزر		النتيجة على الشاشة
1	MENU	اضغط الزر مرة واحدة للدخول الى القائمة الرئيسية للصورة PICTURE	
2	V- / V+	اضغط الزر بالتتابع لغاية ان يتم اختيار قائمة الضبط المسبق PRESET	
3	C+ / C-	اضغط الزر بالتتابع لغاية ان يتم اختيار التوليف الدقيق	
4	V+	والف القناة بشكل دقيق باتجاه الاعلى	
5	V-	والف القناة بشكل دقيق باتجاه الاسفل	
6	MENU	اضغط الزر لاخراج القائمة من الشاشة، او سوف تتوقف القائمة بعد عدة ثوان دون اي اجراء اخر	

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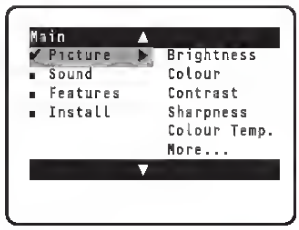
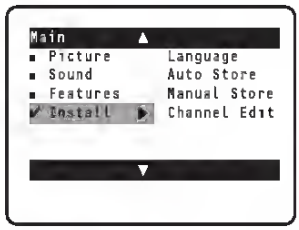
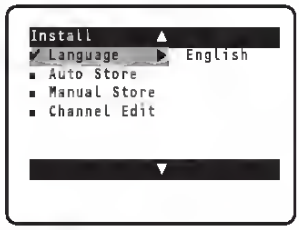
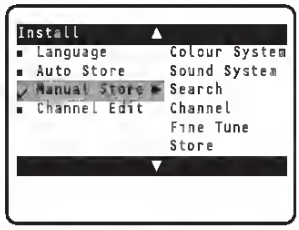
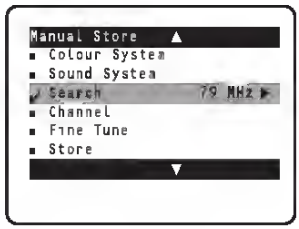
Manual Tuning of Channels

Manual tuning of channels allows you to select your preferred channel number for every available programme.

Step	Press button		Result on screen
1	MENU	Enter main menu.	
2	∨	Press button repeatedly until **Install** is selected.	
3	>	Enter install menu.	
4	∨	Press button repeatedly until **Manual Store** is selected.	
5	>	Enter manual store menu.	
6	∨	Press button repeatedly until **Search** is selected.	

12 18/E 14 01/15/03, 5:00 PM

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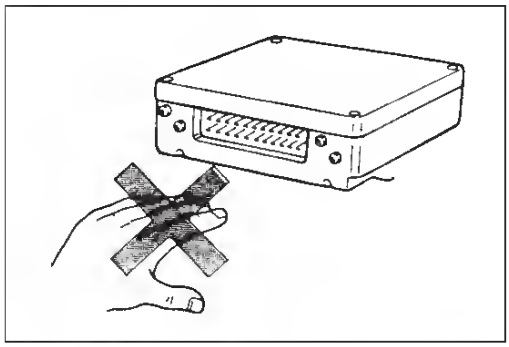
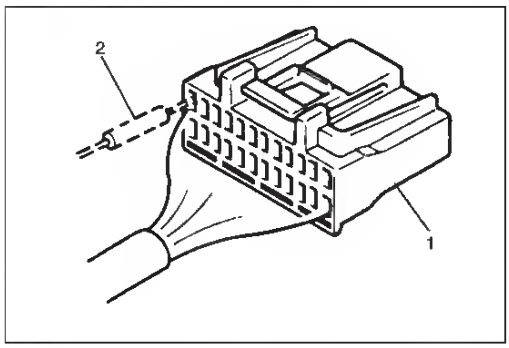
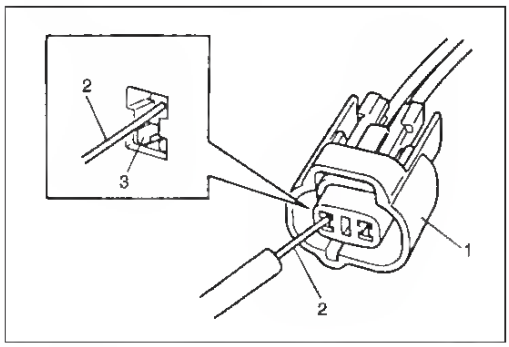


- Be careful not to touch the electrical terminals of parts which use microcomputers (e.g. electronic control unit like as ECM, PCM, P/S controller, etc.). The static electricity from your body can damage these parts.

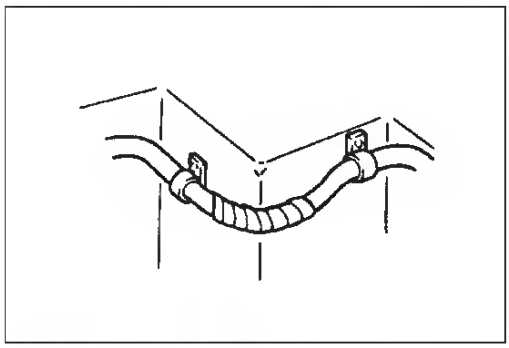
- Never connect any tester (voltmeter, ohmmeter, or whatever) to electronic control unit when its coupler is disconnected. Attempt to do it may cause damage to it.
- Never connect an ohmmeter to electronic control unit with its coupler connected to it. Attempt to do it may cause damage to electronic control unit and sensors.
- Be sure to use a specified voltmeter/ohmmeter. Otherwise, accurate measurements may not be obtained or personal injury may result. If not specified, use a voltmeter with high-impedance (MΩ/V minimum) or a digital type voltmeter.



- When taking measurements at electrical connectors using a tester probe (2), be sure to insert the probe from the wire harness side (backside) of the connector (1).



- When connecting meter probe (2) from terminal side of coupler (1) because it can't be connected from harness side, use extra care not to bend male terminal of coupler of force its female terminal open for connection.
  In case of such coupler as shown connect probe as shown to avoid opening female terminal.
  Never connect probe where (3) male terminal is supposed to fit.



- To avoid damage to the harness, protect its part which may contact against a part forming a sharp angle by winding tape or the like around it.

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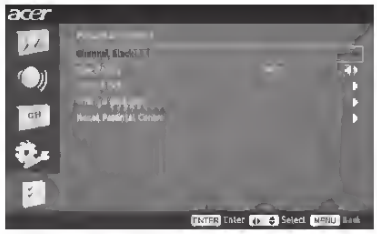
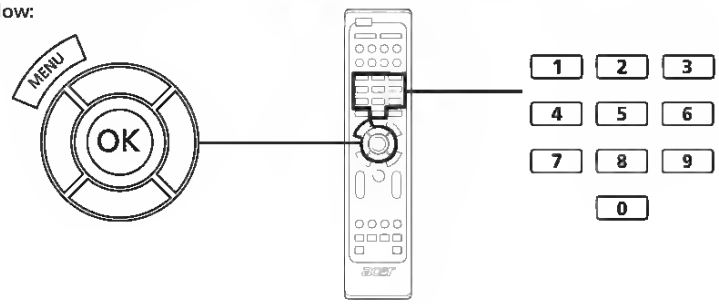
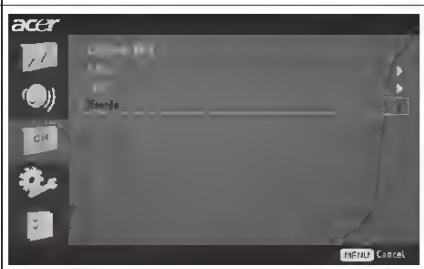
Locking your TV			
1			Press the **MENU** key on the remote control to bring up the OSD.
2			Use the **directional keys** to navigate to the Parental Control menu. Then select **Password.**
3			Enter your Password. Then, select **Channel block**, **Age Rating** or **Input block** for further settings. (see page 14 note)

Reorder for channels

The first time you completed the setup wizard, all available channels were listed. If you need to reorder for new channels, please follow the steps below:



Reordering for channels			
1		Press the **MENU** key on the remote control to bring up the OSD.	
2		Use the **directional keys** to navigate and select Channel Management. Then select **Channel Edit.**	
3			Highlight **Reorder.** Then, select the channel you wish to reorder and press **OK** to confirm. Move to the right channel number and press **OK** to reconfirm.
4		Press **MENU** to exit.	

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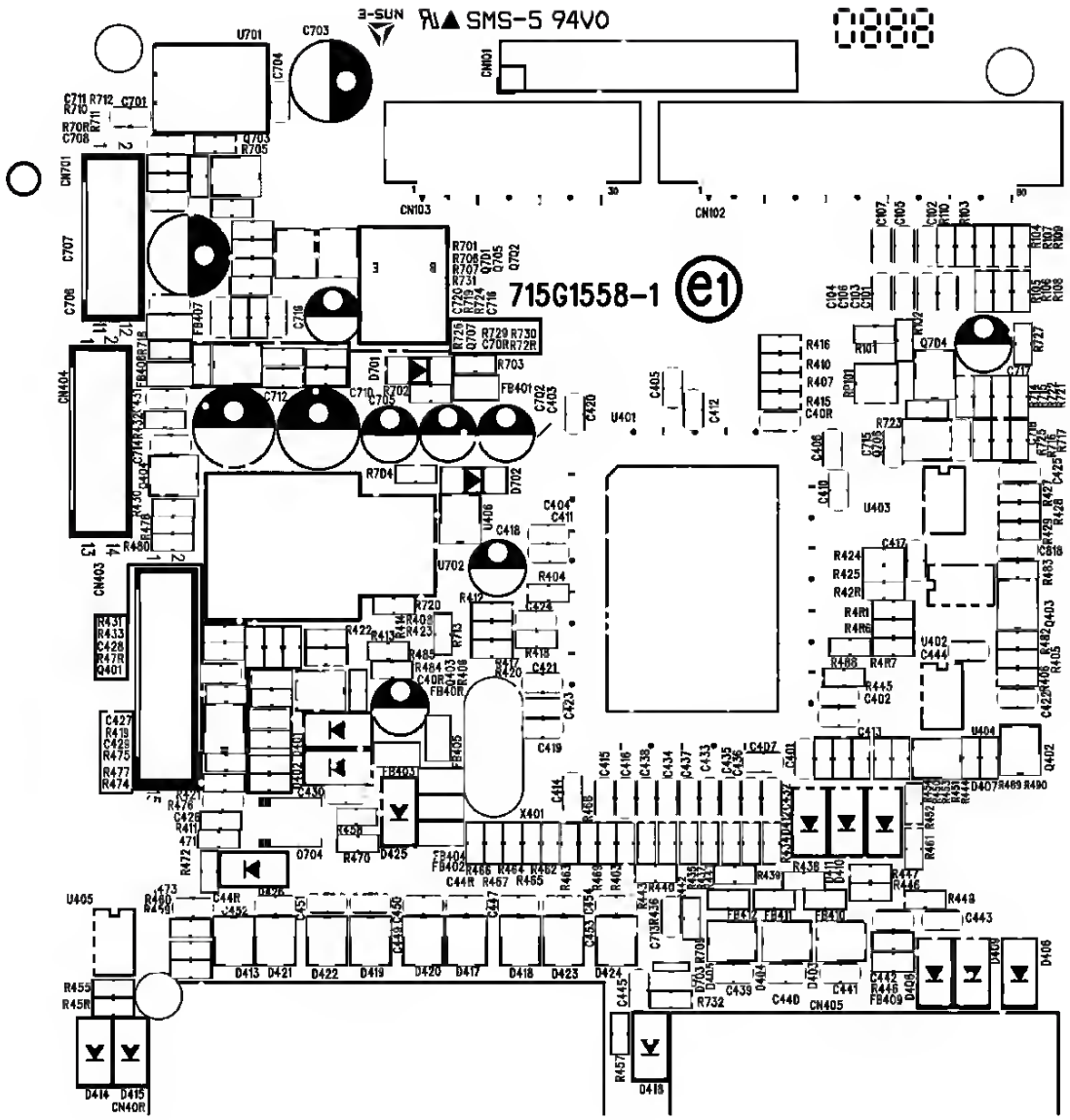
Main Board Layout



Label	Part Number	Description
U201	090G6093 1	HEAT SINK
U401	056G 562100	TSUM16AK
U702	056G 563 21	AP1084K33LA
U406	056G 643 5A	MAX810 STRG
U404	056G1133 34	M24C02-WMN6TP
U403	056G1133 56	M24C16-WMN6TP
CN901	087G 501 32 S	AC SOCKET
CN902	095G8014 12 42	HARNESS
CN102	033G8032 4C	WAFER
CN101	033G803412D	WAFER

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Step 3. Choose the *Internet Protocol (TCP/IP)* icon from the Network Protocol list box, then click *OK*.

Step 4. Check to see if *Internet Protocol (TCP/IP)* is listed under Network Components.

A. If you do not see *TCP/IP* listed under Network Components, you have not installed TCP/IP. Repeat steps 1 - 4.

B. If you see TCP/IP listed under Network Components, you already have TCP/IP on your Windows 2000. Proceed to "Configuring TCP/IP in Windows 2000" in the next section.

3.7 Configuring TCP/IP in Windows® 2000

Step 1. From the *General* tab in the Local Area Connection Properties window, select *Internet Protocol (TCP/IP)* listed under Network Components and click *Properties*.

To enable static IP addressing:

Step 1. Click *Use the following IP Address* and then type the *IP Address, Subnet Mask,* and *Default gateway.*

Step 2. Enter the *Preferred* and *Alternate DNS server* IP addresses.

Step 3. Click *OK* to exit the Internet Protocol (TCP/IP) Properties window. Proceed to Chapter 4 "NetDSL Manager."

3.8 Detecting TCP/IP in Windows® NT 4.0

Step 1. Turn on your computer and log-in to Windows® NT 4.0.

Step 2. Click the *Start* button and select *Settings*.

Step 3. Choose *Control Panel*, and then double click *Network* icon.

Step 4. Click the *Protocols* tab.

A. If you see TCP/IP listed under Network Protocols, you already have TCP/IP on your Windows® NT. Proceed to configuration directions for Windows® NT 4.0 in Section 3.7.

B. If you do not see TCP/IP listed under Network Protocols, you do not have TCP/IP on your Windows® NT. Proceed to the next section, "Installing TCP/IP in Windows® NT 4.0."

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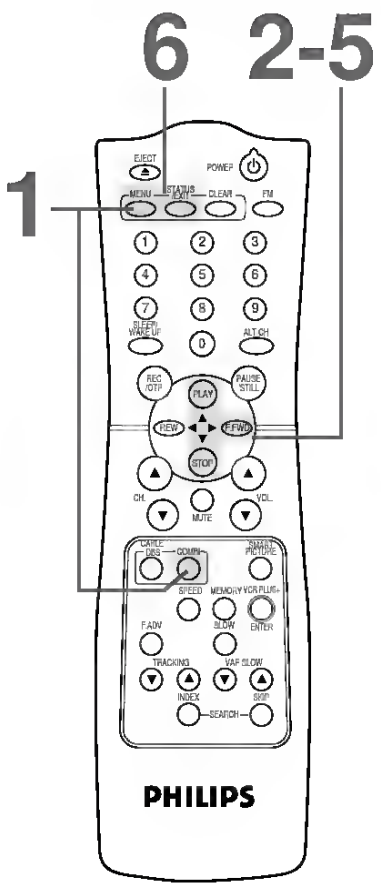
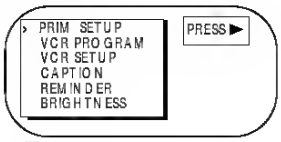
When you set the clock using AUTO CLOCK, specify your time zone. The TV/VCR will maintain the clock according to your time zone.



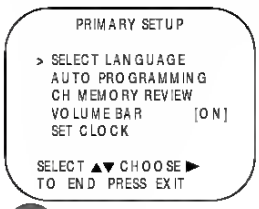
1

Press the COMBI button, then press the MENU button.



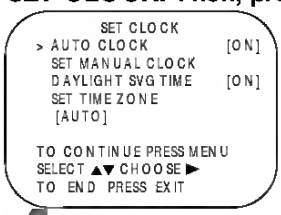
2

Press the PLAY/▲ button or the STOP/▼ button to select PRIM. SETUP. Then, press the F.FWD/▶ button.



3

Press the PLAY/▲ button or the STOP/▼ button to select SET CLOCK. Then, press the F.FWD/▶ button.



4

Press the PLAY/▲ button or the STOP/▼ button to select SET TIME ZONE. Then, press the F.FWD/▶ button.

5

Press the PLAY/▲ button or the STOP/▼ button to select your time zone.

6

Press the MENU button, then press the STATUS/EXIT button.

Helpful Hints

- *If you select AUTO at step 5, the TV/VCR will set the clock according to the time zone data of the PBS station it finds.*
- *You cannot select SET TIME ZONE at step 4 if AUTO CLOCK is OFF.*
- *You may need to turn off the TV/VCR for several minutes to enable the TV/VCR clock to adjust to your time zone.*

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Table 1-6: Single-Board Mirrored Memory LEDs

Item	Description	Indicator	Status
1	Memory status	Off	Memory board is offline.
		Green	Memory board is online.
		Flashing green	Memory board is busy.
		Amber	Memory error has occurred.
3	Mirroring status	Off	Memory board is not configured for single-board mirrored memory.
		Green	Single-board mirrored memory is functioning properly.
		Amber	Memory error has occurred and system has failed over to the mirrored bank(s).
7	DIMM 1-8 status	Off	DIMM is not installed.
		Green	DIMM is installed.
		Amber	Memory error has occurred on this DIMM.
		Flashing amber	Configuration error has occurred.
1-3, 6, 7	All LEDs	Flashing amber	CAUTION – Memory board is in use; relock it immediately.

Table 1-7: Memory Board Icons

Item	Description	Status
4	Lock	Memory board is locked and cannot be removed.
5	Unlock	Memory board is unlocked; do not remove unless the server is powered down.

Note: The icon at which the memory board switch is pointed indicates whether the memory board is locked or unlocked.

Safety

Disconnect mains plug when :

- the red light below the TV screen is flashing continuously.
- a bright white line is displayed across the screen.
- cleaning the TV screen. Never use abrasive cleaning agents. Use a slight damp chamois leather or soft cloth.
- there is a lightning storm.
- the set is left unattended for a prolonged period of time.

Useful Tips

- Do not place your TV set under direct sunlight or heat.
- Avoid placing your set (e.g. near the window) where it is likely to be exposed to rain or water.
- Do not leave your set on standby mode for a prolonged period of time. Switch off set to allow it to be demagnetise. A demagnetised set supports good picture quality.
- Do not shift or move the set around when it is switched on. Uneveness in colour in some parts of the screen may occur.
- Never attempt to repair a defective TV yourself. Always consult a skilled service personnel.

Before calling Service

Make these simple checks before calling for service. Some of these symptoms can easily be rectified if you know what to do.

Symptom	What you should do
Colour patch (uneveness)	• Switch off the TV by the mains power button. Wait for 20 minutes before switching on again. • Check the TV is not placed too near speakers or magnetic objects.
No power	• Check the TV's AC power cord is plugged into the mains socket. If there is still no power, disconnect plug. Wait for 60 seconds and re-insert plug. Switch on the TV again.
No picture	• Check the antenna connection at the rear of the TV. • Possible TV station problem. Try another channel.
Good picture but no sound	• Try increasing the volume. • Check that the sound is not muted. If it is muted, press the ⊗ (mute) button on the remote control to restore sound.
Good sound but poor colour or no picture	• Try increasing the contrast and brightness setting.
Snowish picture and noise	• Check antenna connection at the rear of the TV.
Horizontal dotted lines	• Possible electrical interference e.g. hairdryer, vacuum cleaner, etc. Switch off appliances.
Double images or "Ghost" images	• Possible poor positioning of antenna. Using a highly directional antenna may improve reception.
TV not responding to remote control handset	• Check life span of batteries of remote control handset. • Aim remote control handset directly at remote control sensor lens on the TV.
Message "ACCESS CODE" shown on TV. Cannot access to locked channel.	• Key in your personal access code to unlock channel. If you have forgotten your code, key in the universal code 0711 twice. For more details, refer to section on "How to unlock channels".

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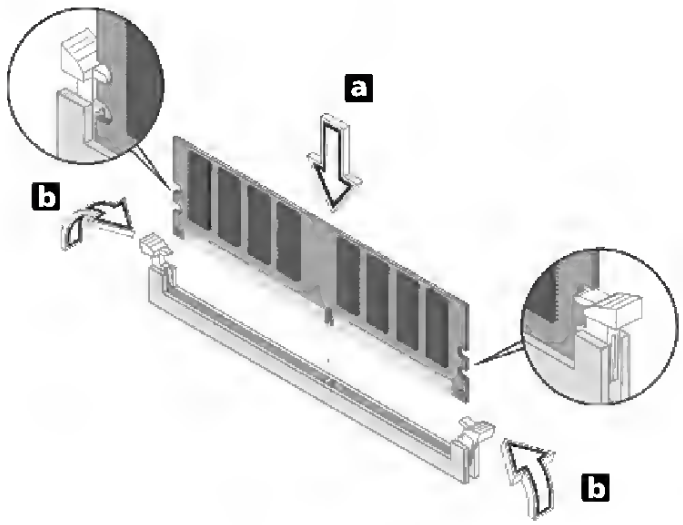
Label	Meaning
	Changing the fuel filter (see the chapter *8 2 11 Changing the fuel filter, page 68*)

2 Align the memory DIMM with the socket (a). Press the memory DIMM into the socket until the clips lock onto the memory DIMM (b).



Note: The memory DIMM sockets are slotted to ensure proper installation. If you insert a memory DIMM but it does not fit easily into the socket, turn the memory DIMM around and try to insert it again.

To reconfigure your computer

Your computer automatically detects the amount of memory installed. Run the BIOS utility to view the new value for total system memory and make a note of it.

Replacing the hard disk

Follow these steps to replace your computer's hard disk:

1 Remove the computer cover.

2 Detach all cables connected to the hard disk and pull the hard disk out.

3 Remove the drive rails that hold the hard disk to the disk frame and detach the hard disk. Set the drive rails aside.

4 Insert the new hard disk into the frame and secure it with drive rails.

5 Reattach all cables to the new hard disk.

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English

9 Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

10 Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.

11 Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a When the power cord or plug is damaged or frayed.
- b If liquid has been spilled into the product.
- c If the product has been exposed to rain or water.
- d If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal condition.
- e If the product has been dropped or the case has been damaged.
- f If the product exhibits a distinct change in performance, indicating a need for service.

12 Use only the proper type of power supply cord set (provided in your accessories box) for this unit. It should be a detachable type: UL listed/CSA certified, type SPT-2, rated 7A 125V minimum, VDE approved or its equivalent. Maximum length is 15 feet (4.6 meters).

13 Always disconnect all telephone lines from the wall outlet before serving or disassembling this equipment.

14 Avoid using a telephone line (other than cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.

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Label	Icon	Color	Component
9			Handset/telephone line ports (optional)
10			Expansion slot
11		Burgundy	Parallel/Printer port

Chapter 3 System Tuning

3.1 LCD Tuning

The display settings let you control the backlight. Backlight provides a screen saving function. The backlight can be automatically turned off when the device is no longer used to lengthen the device life. Please go to "Start" ‡ "Setting" ‡ "Control Panel" ‡ "Display" as shown in the Figure below.

Figure 3.1: Display

To set the time to automatically turn off, tick the check box 'turn off backlight' and set the time to elapse by inputting a number in the edit box.

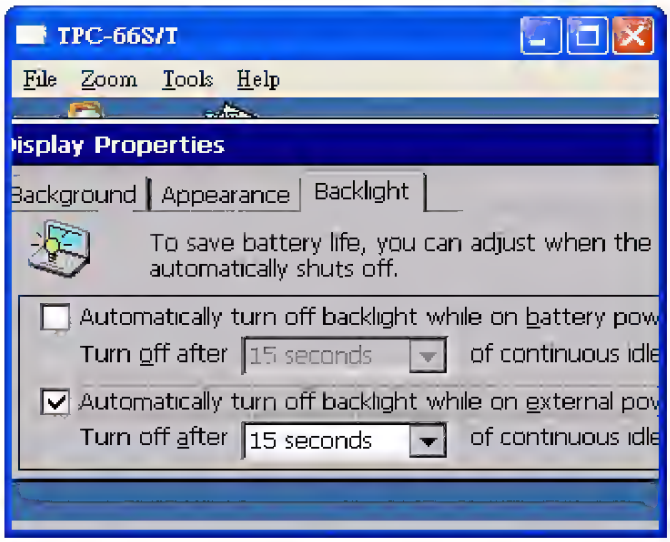
TPC-66S/T
File Zoom Tools Help
Display Properties
Background
Appearance
Backlight
To save battery life, you can adjust when the automatically shuts off.
Automatically turn off backlight while on battery pow
Turn off after 15 seconds of continuous idle
Automatically turn off backlight while on external pow
Turn off after 15 seconds of continuous idle

Figure 3.2: Display Properties

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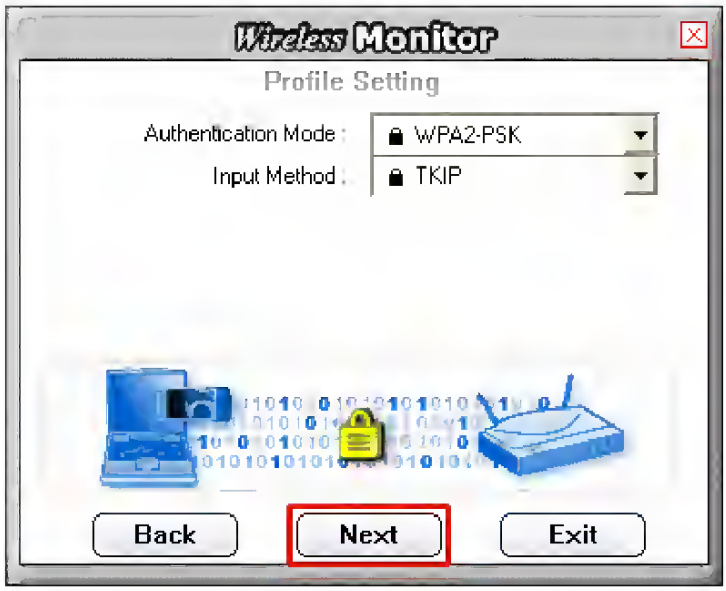
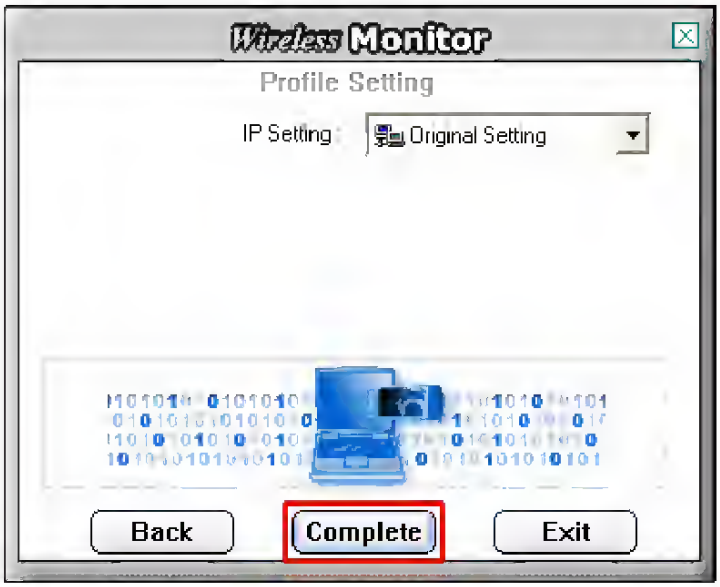
Step 4 Configure any encryption setting if required and click **Next**.



Step 5 Click **Complete** to finish the profile setting.



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Befestigen des Fernsehgeräts am Standfuß

Stellen Sie sicher, dass alle dargestellten Zubehörteile vorhanden sind, und montieren Sie den Standfuß entsprechend der zur Verfügung gestellten Montageanleitung.

Wandmontage des Fernsehgeräts mit Hilfe der Wandhalterung (optional)

Wenn Sie dieses Produkt an einer Wand anbringen, müssen Sie dabei auf jeden Fall die Anweisungen des Herstellers einhalten. Wenn das Gerät nicht ordnungsgemäß montiert ist, könnte es herunterfallen, ein Kind oder einen Erwachsenen ernsthaft verletzen und beschädigt werden.

Anbringen der Wandhalterung

Mit der (separat erhältlichen) Wandhalterung können Sie das Fernsehgerät an einer Wand befestigen.

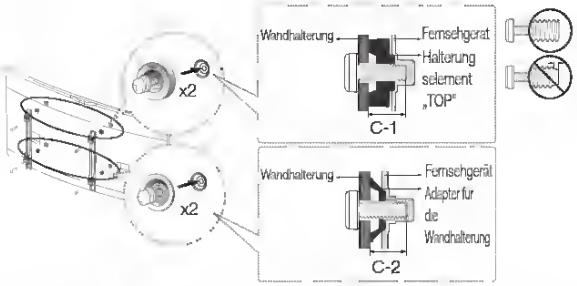
Verwenden Sie beim Montieren der Wandhalterung zum Schutz des Fernsehgeräts das Styropormaterial, in dem der Fernseher geliefert wurde. Legen Sie das Fernsehgerät auf eine weiche Unterlage, und befestigen Sie die Schrauben.

Wenn Sie das Fernsehgerät in Kombination mit einer Soundbar an einer Wandhalterung montieren möchten, befestigen Sie zunächst die Soundbar am Fernseher und dann erst den Fernseher an der Wandhalterung. Weitere Informationen entnehmen Sie den Anweisungen, die der Soundbar beiliegen.

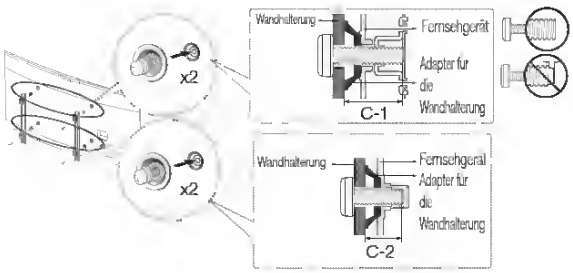
- Die Verwendung einer Soundbar in Kombination mit einer Wandhalterung ist unter Umständen je nach Region oder Modell nicht möglich.

Detaillierte Informationen zum Montieren der Wandhalterung finden Sie in den Anweisungen zur Wandhalterung. Wir empfehlen Ihnen, sich beim Anbringen der Wandhalterung von einem Techniker helfen zu lassen. Wir raten davon ab, dies selbst zu erledigen. Samsung Electronics haftet nicht für Schäden an Gerät oder Personen, wenn die Montage der Wandhalterung vom Kunden selbst durchgeführt wird.

55-ZOLL-MODELLE:
2 BEFESTIGUNGSRINGE FÜR OBEN (TOP)
2 Adapter für die Wandhalterung



65-ZOLL-MODELLE: 4 Adapter für die Wandhalterung



Befestigen Sie vor der Montage einer anderen Wandhalterung den Wandhalterungsadapter, der separat mit dem Fernsehgerät geliefert wird.

- Weitere Informationen erhalten Sie in der Montageanleitung unsere Wandhalterungsbausatzes.

Spezifikation (VESA) der Wandhalterung

Die Wandhalterung wird nicht mitgeliefert, sondern ist gesondert erhältlich. Montieren Sie die Wandhalterung an einer soliden Wand, die senkrecht zum Boden steht. Bei Installation der Wandhalterung auf anderen Trägermaterialien wenden Sie sich bitte an Ihren Fachhändler. Bei Montage des Geräts an einer Decke oder schrägen Wand kann das Fernsehgerät herunterfallen und Verletzungen verursachen.

- Die Standardabmessungen der Wandhalterung finden Sie in der nachfolgenden Tabelle.
- Beim Kauf unserer Wandhalterung erhalten Sie ein detailliertes Installationshandbuch sowie alle für die Montage erforderlichen Teile.
- Verwenden Sie keine Schrauben, die nicht der VESA-Standardspezifikation für Schrauben entsprechen.

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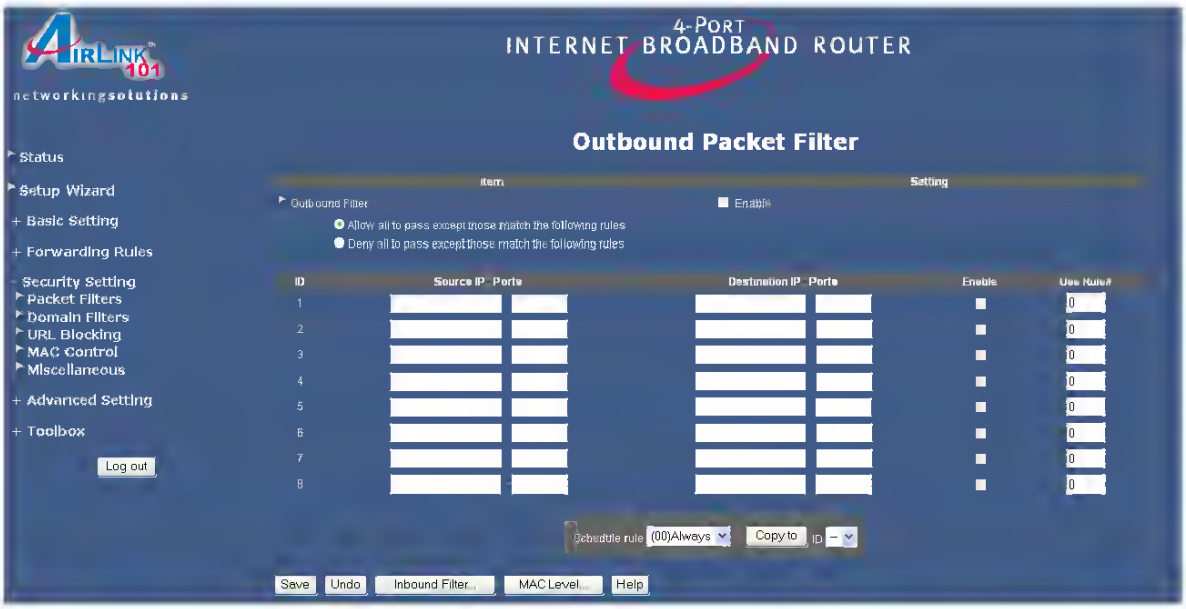
5.4 Security Setting

5.4.1 Packet Filter

Packet Filter enables you to control which packets are allowed to pass through the router. Outbound filter applies on all outbound packets. However, Inbound filter applies to packets that are destined to Virtual Servers or DMZ host only.



Outbound Packet Filter is the default packet filter page. To change to Inbound Packet Filter, click on the **Inbound Filter** button.

You can select one of the two filtering policies:

1. Allow all [packets] to pass except those [that] match the specified rules
2. Deny all [packets] to pass except those [that] match the specified rules

Check on the **Enable** box to activate the packet filter function.

You can specify up to 8 filters for each direction. For each rule (ID), you can define the following parameters:

- Source IP address
- Source port address
- Destination IP address
- Destination port address
- Protocol: TCP or UDP or both.
- Use Rule#

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30 One-Touch Recording

A One-Touch Recording (OTR) is an immediate timed recording from 30 minutes to eight hours long.
Before you begin, make sure:

- Channels are set. *Details are on page 10.*
- A tape is in the TV/VCR. The record tab must be intact.

1

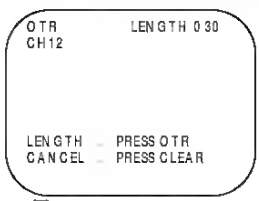
Use the CH(annel) ▲/▼ buttons or the Number buttons to select the channel you want to record.

2

Press the SPEED button until the desired recording speed (SP or SLP) appears on the screen. *Details are on page 29.*

3

Press the REC(ord)/OTR button repeatedly until the desired recording length appears in the upper right corner of the screen. Recording will begin immediately. The Record light will appear.

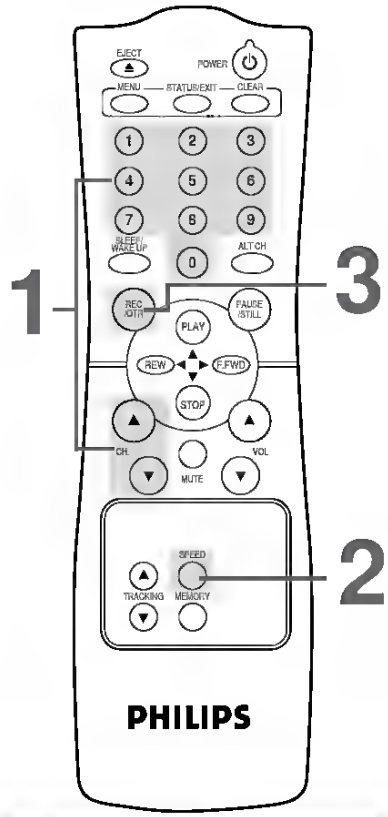


4

To stop an OTR before recording is finished, press the STOP/EJECT button on the TV/VCR.
Or, press the REC(ord)/OTR button, then press the CLEAR button, then press the STOP/▼ button on the remote control.
If the end of a tape is reached during an OTR, recording will stop. The TV/VCR will turn itself off and eject the tape. The Record light will flash rapidly.
The TV/VCR will turn off at the end of the OTR.

4

Press the STOP/EJECT button on the TV/VCR to stop the OTR.



Helpful Hints

- *To check the time remaining for an OTR, press the STATUS/EXIT button.*
- *To change the recording length while an OTR is in progress, press the REC(ord)/OTR button until the desired recording length appears on the screen.*
- *You can not pause an OTR.*
- *To cancel an OTR but continue recording, press the REC(ord)/OTR button, then press the CLEAR button.*
- *You cannot record if DEFEAT RECORDING is ON. Details are on page 36.*
- *You can change the tape speed with the SPEED button while a recording is in progress, but some distortion may appear on the tape.*

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15PF5120 (15" LCD TV)

No	Resolution	Mode	V. Frequency (Hz)	H. Frequency (kHz)
1	640 x 480	VGA VESA 60	59.940	31.469
2	800 x 600	SVGA VESA 56	56.250	35.156
3		SVGA VESA 60	60.317	37.897
4	1024 x 768	XGA VESA 60	60.004	48.363

20PF5120 (20" LCD TV)

No	Resolution	Mode	V. Frequency (Hz)	H. Frequency (kHz)
1	640 x 480	VGA VESA 60	59.940	31.469
2	800 x 600	SVGA VESA 56	56.250	35.156
3		SVGA VESA 60	60.317	37.897

7.3 Connect devices

This section describes how to connect various devices with different connectors and supplements examples provided in the *Quick Start Guide*.

Caution

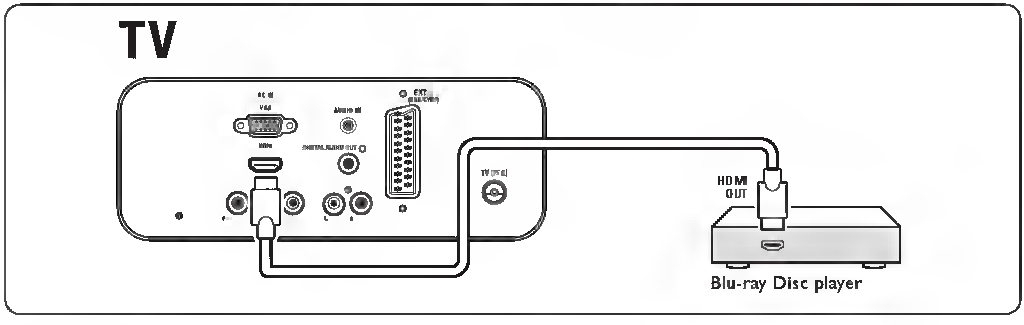
Disconnect the mains cord before connecting devices

Note

Different types of connectors may be used to connect a device to your TV, depending on availability and your needs

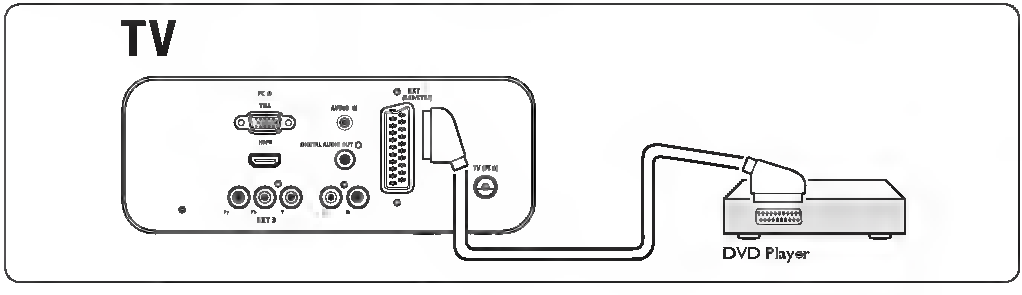
Blu-ray Disc player

For full high-definition video, connect a HDMI cable as illustrated



DVD player

For DVD video, connect a SCART cable as illustrated



R307	9965 100 03113	18kΩ 5% 1/6W
R308	9965 000 15057	4.7k 5% 0.18W
R309	9965 000 14050	10k 5% 0.16W
R310	9965 100 03109	12kΩ 5% 1/6W
R311	9965 000 15044	1.5k 5% 0.18W
R312	9965 100 03139	51kΩ 1/6W
R313	9965 100 03159	1.5Ω 1W
R314	9965 100 03147	RES. C.F. 2.2 OHM 1/4W
R317	9965 100 03153	RES. C.F. 58 OHM 1/2W
R318	9965 100 03107	1.2kΩ 5% 1/6W
R336	9965 100 03149	220Ω 1/2W
R337	9965 000 15041	100k 5% 0.16W
R338	9965 000 15041	100k 5% 0.16W
R401	9965 000 17494	120Ω 5% 1/6W
R402	9965 100 03148	5.6Ω 5% 1/2W
R403	9965 000 24352	0.47Ω 5% 1W
R404	9965 000 15409	15kΩ 5% 2W
R405	9965 100 03155	1.5Ω 5% 1W
R406	9965 000 15057	4.7kΩ 5% 0.18W
R407	9965 100 03160	3.3Ω 5% 2W
R406	9965 000 17669	12k 5% 1W
R409	9965 100 03149	220Ω 1/2W
R410	9965 100 03151	22kΩ 1/2W
R411	9965 100 03156	1.6kΩ 5% 1W
R413	9965 000 14048	10Ω 5% 1/6W
R414	9965 000 15049	24kΩ 5% 1/6W
R415	9965 100 02999	1kΩ 5% 1/6W
R416	9965 100 03142	6.6kΩ 5% 1/6W
R417	9965 100 03157	1.2kΩ 5% 1/2W
R416	9965 100 03156	1kΩ 5% 1/2W
R419	9965 100 03154	2.2Ω 5% 1/2W
R440	9965 000 14048	10Ω 5% 1/6W
R442	9965 000 17494	120Ω 5% 1/6W
R443	9965 100 03141	620Ω 5% 1/6W
R601	9965 000 15057	4.7k 5% 0.16W
R602	9965 000 15057	4.7k 5% 0.16W
R603	9965 000 14050	10k 5% 0.16W
R604	9965 000 14050	10k 5% 0.16W
R607	9965 000 14050	10k 5% 0.16W
R606	9965 000 14050	10k 5% 0.16W
R619	9965 000 22921	0.22Ω 1W
R802	9965 000 15177	1MΩ 1/2W
R803	9965 100 03192	NTC RES 3D2-14
R804	9965 100 03190	Metal Film 1WS 330kΩ
R806	9965 000 17557	DSP-301M-A
R807	9965 000 25967	220Ω 10% 1/2W
R810	9965 000 30822	66kΩ 5% 2W
R611	9965 100 03107	1.2kΩ 5% 1/6W
R813	9965 100 03167	100Ω 5% 1/4W
R814	9965 000 14048	10Ω 5% 1/6W
R815	9965 100 03191	0.06Ω 5% 2W
R617	9965 000 15664	2.2kΩ 5% 1/4W
R616	9965 000 14055	33kΩ 5% 1/6W
R819	9965 100 03164	330kΩ 5% 1/6W
R820	9965 000 14059	22Ω 5% 0.25W
R821	9965 000 13960	470Ω 5% 0.16W
R622	9965 100 03165	390kΩ 1/6W
R829	9965 000 15761	6.2MΩ 1W
R835	9965 100 03000	660Ω 5% 1/6W
R836	9965 000 13957	2.2kΩ 5% 1/6W
R637	9965 000 14055	33kΩ 5% 1/6W
R636	9965 100 03166	RES. M.F. 3.6K OHM 1/6
R839	9965 000 23773	62kΩ 1% 0.5W
R840	9965 000 14050	10k 5% 0.16W
R841	9965 000 14585	47kΩ 5% 1/6W
R642	9965 000 44690	3.9kΩ 1% 1/6W
R843	9965 100 03189	1Ω 5% 1W
R844	9965 100 02999	1kΩ 5% 1/6W
R845	9965 000 15771	1KΩ 1/4W 5% Carb. Film
R851	9965 000 14050	10k 5% 0.16W
R901	9965 000 27656	27kΩ 5% 1/6W
R903	9965 100 02999	1kΩ 5% 1/6W
R904	9965 100 03143	75Ω 5% 1/6W
R905	9965 100 02999	1kΩ 5% 1/6W
R906	9965 100 03144	62Ω 5% 1/6W
R907	9965 100 02999	1kΩ 5% 1/6W
R906	9965 100 02999	1kΩ 5% 1/6W
R912	9965 100 02999	1kΩ 5% 1/6W
R914	9965 100 03144	62Ω 5% 1/8W
R916	9965 000 14050	10k 5% 0.16W
R919	9965 000 14050	10k 5% 0.16W
R922	9965 000 14055	33kΩ 5% 1/6W
R922A	9965 000 27656	27kΩ 5% 1/6W
R923	9965 000 13960	470Ω 5% 0.16W
R926	9965 000 14585	47kΩ 5% 1/6W
R927	9965 000 14585	47kΩ 5% 1/6W
R926	9965 000 14585	47kΩ 5% 1/6W
R929	9965 000 14585	47kΩ 5% 1/6W
R930	9965 000 14585	47kΩ 5% 1/6W
R931	9965 000 14585	47kΩ 5% 1/6W
R932	9965 100 02999	1kΩ 5% 1/6W
R933	9965 100 02999	1kΩ 5% 1/6W
R935	9965 000 14565	47kΩ 5% 1/6W
R936	9965 000 14565	47kΩ 5% 1/6W
R940	9965 000 15062	7.5kΩ 50% 1/6W
R941	9965 100 02999	1kΩ 5% 1/6W
R963	9985 100 02999	1kΩ 5% 1/6W
R964	9985 100 02999	1kΩ 5% 1/6W
RT801	9985 000 25706	PTC 9 OHM
VR801	9985 000 24388	Varistor Res Myg-14k300
J103	9985 000 14049	100Ω 5% 0.16W

L001	9985 100 03164	12µH +/-5%
L002	9985 000 15123	10µH 5%
L080	9985 000 15126	33µH 5%
L103	9965 000 15121	1µH 10%
L106	9965 000 15124	22µH 5%
L202	9965 000 15126	33µH 5%
L203	9965 100 03165	Bead BF-I35050R-730
L206	9965 000 15124	22µH 5%
L411	9965 100 03166	Coil Width 92µH
L412	9965 100 03167	Coil Linearity 45µH
L815	9965 000 24357	Bead H75 (3.5X1X5)
L830	9965 000 24357	Bead H75 (3.5X1X5)
L833	9965 100 03165	Bead BF-I35050R-730
L834	9965 000 15193	100µH 10%
L835	9965 100 03165	Bead BF-I35050R-730
L840	9965 000 24357	24357
L843	9965 000 15193	100µH 10%
T401	9965 100 03166	Transf. Hor. BCT-101
T402	9965 100 03170	FBT BSC25-0220w
T601	9965 100 03202	Line Filter
T603	9965 100 03203	Transf. Conv. BCK4035

D001	9965 100 03096	Zener 5% 4V7 1/2W
D001A	9965 000 32016	LED 932205099662
D002	9965 100 02996	1N4148 (Switching)
D005	9965 100 02996	1N4148 (Switching)
D006	9965 100 02996	1N4146 (Switching)
D007	9965 100 02996	1N4146 (Switching)
D008	9965 000 13957	2.2kΩ 5% 1/6W
D009	9965 000 15616	BZX79-C6V2
D010	9965 000 15816	BZX79-C6V2
D011	9965 000 15816	BZX79-C6V2
D012	9965 100 03097	Zener 5V1 1/2W 5%
D020A	9965 100 03090	BAT65 (Switch.)
D090	9965 000 15617	3V9 1/2W 5%
D091	9965 100 02996	1N4146 (Switching)
D092	9965 100 02996	1N4146 (Switching)
D093	9965 100 02996	1N4146 (Switching)
D094	9965 100 02996	1N4146 (Switching)
D102	9965 100 03096	Diode CW574CD
D206	9965 100 02996	1N4148 (Switching)
D207	9965 000 15816	BZX79-C6V2
D301	9965 100 03094	1N4001 (Rectifier)
D302	9965 100 02996	1N4146 (Switching)
D303	9965 100 02996	1N4146 (Switching)
D304	9965 000 15617	3V9 1/2W 5%
D305	9965 100 02996	1N4146 (Switching)
D306	9965 100 02996	1N4146 (Switching)
D307	9965 100 02996	1N4148 (Switching)
D337	9965 100 02996	1N4148 (Switching)
D336	9965 100 02996	1N4148 (Switching)
D401	9965 100 03091	FR104 (Fast Rectifier)
D402	9965 100 03091	FR104 (Fast Rectifier)
D403	9965 100 02996	1N4146 (Switching)
D404	9965 000 15616	BZX79-C6V2
D405	9965 100 03091	FR104 (Fast Rectifier)
D406	9965 100 02996	1N4146 (Switching)
D440	9965 100 02996	1N4148 (Switching)
D442	9965 100 03095	Diode BZX79BXXX
D625	9965 100 02996	1N4148 (Switching)
D626	9965 100 02996	1N4148 (Switching)
D601	9965 000 15164	RL255
D602	9965 000 15164	RL255
D603	9965 000 15164	RL255
D604	9965 000 15164	RL255
D609	9965 000 20421	1H6
D614	9965 100 02996	1N4148 (Switching)
D619	9965 100 02996	1N4148 (Switching)
D620	9965 100 03091	FR104 (Fast Rectifier)
D621	9965 100 03172	Zener 16V 1/2W 5%
D630	9965 100 03174	Diode GRU3ZX
D633	9965 000 44366	Rectifier RU3A
D640	9965 100 02996	1N4146 (Switching)
D641	9965 000 44714	Diode RU3YX
D644	9965 100 03173	Zener 7V5 1/2W 5%
D902	9965 000 15816	BZX79-C6V2
D903	9965 000 15616	BZX79-C6V2

IC001	9965 100 03103	AT24C08A-10PU-2.7
IC201	9965 100 03105	TMPA8891CXBNG
IC301	9965 100 03104	LA78040N-E
IC402	9965 100 03102	L7805CV
IC601	9985 100 03004	IC TDA7496SA
IC801	9965 100 03179	TEA1506P
IC802	9965 100 03178	HPC922-C
IC803	9965 100 03177	TL431ACLP
IC901	9965 100 03101	4053 (ANALOG SW)
Q002	9965 100 03003	2SC1815-Y
Q003	9965 100 02997	ST2SA1015Y (PNP)
Q005	9965 100 02997	ST2SA1015Y (PNP)
Q093	9965 100 03003	2SC1615-Y
Q095	9965 100 03003	2SC1615-Y
Q097	9965 100 03003	2SC1615-Y
Q101	9965 000 14974	2SC3779D
Q202	9965 100 03003	2SC1615-Y
Q206	9965 100 03003	2SC1615-Y
Q210	9965 100 02997	ST2SA1015Y (PNP)
Q401	9965 100 03100	2SC2235-Y(NPN)
Q402	9965 100 03099	BU450DZ
Q405	9965 100 02997	ST2SA1015Y (PNP)
Q624	9965 100 03003	2SC1615-Y
Q625	9985 100 02997	ST2SA1015Y (PNP)
Q601	9965 100 02997	ST2SA1015Y (PNP)
Q602	9965 100 03003	2SC1615-Y
Q615	9965 100 03176	2SK2645-01MR
Q841	9965 100 03003	2SC1615-Y
Q842	9965 100 03003	2SC1615-Y
Q843	9965 100 03175	2SD2012
Q844	9965 100 03003	2SC1615-Y
Q845	9965 100 03003	2SC1615-Y
Q903	9965 100 03003	2SC1615-Y
Q904	9965 100 03003	2SC1615-Y
Q905	9965 100 03003	2SC1615-Y

CRT Panel

Various

P501	9965 100 04137	HS 5P24 500 TJC3-5Y/SCN-5Y
P502	9965 100 04136	HS 4P24 460 F/W TJC3-4Y/SCN-4
OTH027	9965 000 34422	CRT Sock. GZS10-2-106

C501	9965 000 31199	470pF 5% 50V
C502	9965 000 31199	470pF 5% 50V
C503	9965 000 31199	470pF 5% 50V
C504	9965 000 44361	10nF 10% 500V
C505	9965 000 44362	1000pF 10% 2kV
C507	9965 000 15099	0.01µF +60%~20% 50V
C508	9965 000 14070	220µF 20% 16V
C514	9965 000 14925	Bead BF60 for C506
C514	9965 000 35317	10nF 20/60%

R501	9965 000 14049	100Ω 5% 0.16W
R502	9965 000 15057	4.7k 5% 0.16W
R503	9965 000 17936	750Ω 5% 0.16W
R504	9965 000 14049	100Ω 5% 0.16W
R505	9965 000 15057	4.7k 5% 0.16W
R506	9965 000 17936	750Ω 5% 0.16W
R507	9965 000 14049	100Ω 5% 0.16W
R508	9965 000 15057	4.7k 5% 0.16W
R509	9965 000 17936	750Ω 5% 0.16W
R510	9965 000 15409	15k 5% 2W
R511	9965 000 15409	15k 5% 2W
R512	9965 000 15409	15k 5% 2W
R514	9965 100 03001	2.7kΩ 5% 1/2W
R515	9965 100 03001	2.7kΩ 5% 1/2W
R518	9965 100 03001	2.7kΩ 5% 1/2W
R521	9965 000 17939	100k 5% 0.25W
R522	9965 100 02999	1kΩ 5% 1/6W
R523	9965 100 03000	680Ω 5% 1/6W
R524	9965 100 03066	RES. C.F. 5.1K OHM 1/6
R525	9965 100 03000	680Ω 5% 1/6W
R526	9965 100 03000	680Ω 5% 1/6W
R527	9965 100 03000	680Ω 5% 1/6W

D501	9965 100 02996	1N4146 (Switching)
D502	9965 100 02996	1N4148 (Switching)

Technical data

Capacity:	12 place settings including serving dishes
Permitted water pressure:	1-10 bar (=10-100 N/cm^2 = 0.1-1.0 MPa)
Electrical connection:	230 V, 13 A, also see the rating plate on the right-hand side of the dishwasher's interior door
Dishwasher: Free-standing appliances	
Dimensions:	850 x 598 x 598 (H x W x D in mm)
Max. weight:	54 kg

CE This appliance conforms with the following EU Directives:
- 73/23/EEC dated 19.02.1973 Low Voltage Directive
- 89/336/EEC dated 03.05.1989 EMC Directive inclusive of Amending Directive 92/31/EEC
- 93/68/EEC dated 22.07.1993 CE Marking Directive

Service

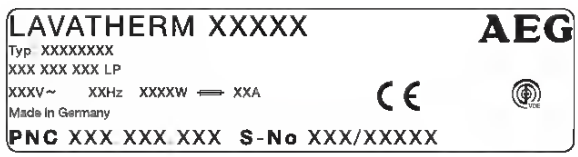
In the chapter "Something not working" some disturbances have been summarised, which you can solve yourself. If you do not find any helpful information there, please contact your local customer service centre. It is nearby and if necessary can reach you quickly.
(Addresses and phone numbers can be found in the Warranty Conditions/Service Departments)

Be well prepared before you phone. This facilitates the diagnosis and the decision as to whether a customer service visit is necessary. With our checklist you can gather important information before making your call:

Make a note of the PNC number and the S number. They are both on the rating plate behind your tumble dryer's door.

PNC .....

S-No .....



If possible establish:

- How is the disturbance evident?
- Under what circumstances does the disturbance occur?

When do you incur costs even during the warranty period?

- if you could have solved the disturbance yourself with the help of the Troubleshooting table (see section "Something not working"),
- if the customer service engineer has to make several journeys because he did not receive all the necessary important information before his visit and now e.g. has to fetch spares. You can avoid these extra trips by preparing your telephone call properly in the way described above.

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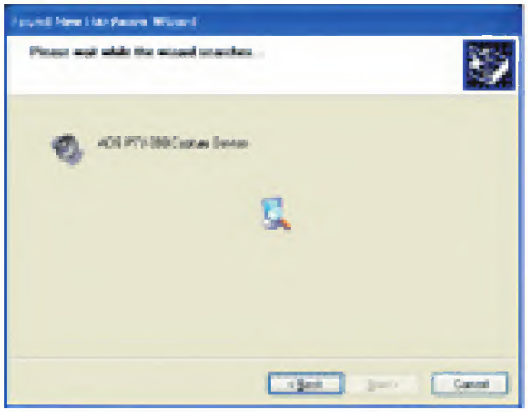
Étape 1. Branchement :

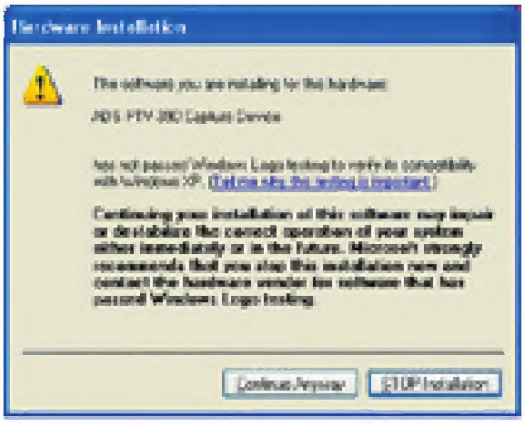
Branchez le périphérique Instant Video PCI à l'ordinateur :

A. Branchez la carte PCI directement dans un port PCI ouvert de la carte mère de l'ordinateur.
B. Après le branchement, allumez l'ordinateur. Un Assistant d'installation de pilotes apparaît à l'écran.



1) Sélectionnez « Installer le logiciel automatiquement (recommandé) », puis cliquez sur « Suivant ».

2) Laissez Windows rechercher les pilotes appropriés. Une fois les pilotes trouvés, la fenêtre « Installation matérielle » apparaît.



3) Cliquez sur « Continuer ».

Nota : cliquer sur « Continuer quand même » ne peut endommager votre ordinateur et vous permet d'achever l'installation de votre nouveau matériel.

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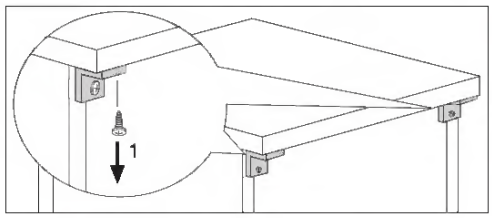
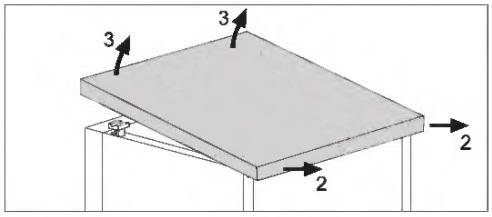
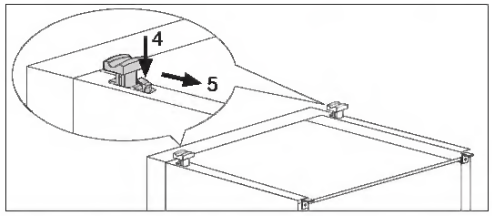
- If the dishwasher is installed underneath a kitchen work surface, the original work surface of the dishwasher is to be removed as follows:
  - Unscrew the screws (1) from the elbows on the back side.
  - Slide the work surface approx. 1cm to the rear (3), lift at the front (4) and remove.
  - Press the work surface retaining brackets at the position shown in the diagram (4) and remove the bracket at an angle to the rear (5).







- The dishwasher must also be screwed on tightly to the work surface or to the adjoining units. This is essential to ensure the dishwasher does not tip.

If the dishwasher is later used as a free-standing appliance, the original work surface must be re-mounted.

The plinth on free-standing appliances is not adjustable.

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- With a 7.1-channel surround system, audio signals that have undergone matrix decoding processing through surround back channel processing to which the Up Mix function is added are output from the surround back speakers.

Press SB CH repeatedly to cycle the surround back channel options.

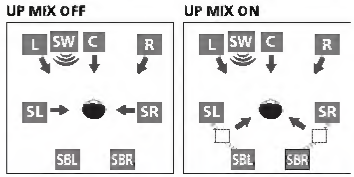
Each press cycles through the options as follows:

- **SB ON** – Matrix decoding processing for generating the surround back component from the surround component is turned on.
- **SB AUTO** – Matrix decoding processing for generating the surround back component from the surround component is switched automatically. Matrix decoding processing is only performed when surround back channel signals are detected in the input signals.
- **SB OFF** – Matrix decoding processing for generating the surround back component from the surround component is turned off.

Setting the Up Mix function

In a 7.1-channel surround system with surround speakers placed directly at the sides of the listening position, the surround sound of 5.1-channel sources is heard from the side. The Up Mix function mixes the sound of the surround speakers with the surround back speakers so that the surround sound is heard from diagonally to the rear as it should be.

- Using the Up Mix function is effective when the speakers in the 7.1-channel surround system are set up as recommended in the example on page 14.
- Depending on the positions of the speakers and the sound source, in some cases it may not be possible to achieve good results. In this case, set the setting to **OFF**.



1 Switch the receiver into standby.

2 While holding down PRESET ➞ on the front panel, and hold the ⏻STANOBY/ON for about two seconds.

UP MIX: OFF appears and the Up Mix function turns off. If you want to turn this function on, perform steps 1 and 2 again.

- When set to **ON**, the ⠿ (Up Mix) indicator on the front panel lights.

Note

- Set to **ON** regardless of this setting when playing DTS-HD signals.
- May automatically be set to **OFF** even when set to **ON**, depending on the input signal and listening mode.
- If the **Network Standby** is set to **ON** or **Standby Through** is not set to **OFF**, you may not be able to set the Up Mix function.
- HDMI Control should also be set to **OFF**, not **ON**.

Setting the Audio options

There are a number of additional sound settings you can make using the **AUDIO PARAMETER** menu. The defaults, if not stated, are listed in bold.

Important

- Note that if a setting doesn't appear in the **AUDIO PARAMETER** menu, it is unavailable due to the current source, settings and status of the receiver.

1 Press RECEIVER, then press AUDIO P..

2 Use ↑/↓ to select the setting you want to adjust.

Depending on the current status/mode of the receiver, certain options may not be able to be selected. Check the table below for notes on this.

3 Use ←/→ to set it as necessary.

See the table below for the options available for each setting.

4 Press RETURN to confirm and exit the menu.

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